



SANY LITHIUM BATTERY COUNTERBALANCE FORKLIFT TRUCK

PRODUCT MANUAL



SANY

QUALITY CHANGES THE WORLD

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Due to ongoing technological advancements, technical parameters and configurations may change without prior notice. The machines shown may include additional equipment. This brochure is for reference purposes only, and the actual product specifications shall take precedence.

SANY FORKLIFT



www.sanyroboticsglobal.com

SANY LITHIUM BATTERY COUNTERBALANCE FORKLIFT TRUCK

From developing the high-voltage forklift architecture in 2020 to redefining industry standards with its launch in 2021
From standard liquid cooling for the EV system to top-tier protection standards
The first to implement NEV-grade technology, the first cloud platform in the forklift industry, and the first to provide a five-year warranty on the EV system
SANY Electric Forklift has established a technological edge through its high-voltage innovation
Continuously leading the industry's development in EV systems and smart technolog
Continuously setting new benchmarks in material handling standards for extreme working conditions



Fast charging



Powerful performance



High efficiency



All-weather operation



High intelligence




Easy maintenance




SANY Electric Forklift extreme challenge

 +40°C extreme heat

 -40°C extreme cold

 4000m high altitude

 98% extreme heat and high humidity

 Complex desert environment



CREATING AN INTELLIGENT PLATFORM THAT SEAMLESSLY INTEGRATES PEOPLE, VEHICLES, AND A NETWORK WITH INTELLIGENT INSPECTION, MANAGEMENT, OPERATION, DRIVING, AND CONTROL

Intelligent inspection

Automatic diagnosis of the EV system and circuits; in-depth mining of operational data, AI-powered intelligent analysis and fault prediction to ensure optimal driving performance.

Intelligent control

Remote OTA updates, remote tracking and speed control, remote encryption and locking.

Intelligent control

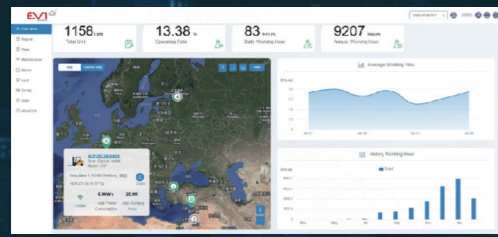
ADAS (Advanced Driver Assistance System)

- 360° panorama
- Driving environment recognition
- Active protection
- Driving recorder

DMS (Driver Monitoring System)

- Facial recognition
- Seat belt detection
- Fatigue driving recognition
- Hazardous driving behavior recognition

Intelligent management (T_BOX)



The first independently developed cloud platform in the forklift industry



Overseas EVI management platform

- After-sales intelligence
- Intelligent monitoring
- Visual management of equipment
- Fleet dispatching management

7-inch touch display



Intelligent operation

- Mast lowering buffer, load landing buffer, cylinder end buffer
- Automatic turning speed reduction
- Hydraulic system, explosion-proof buffer
- Ramp hold system (optional)
- Charging protection, power-off protection, low-battery protection
- Overload protection
- OPS seat sensing (speed limit when unoccupied)



S SERIES (3-WHEEL) NARROW-AISLE SPECIALIST, COLD STORAGE HANDLING EXPERT

30%

Enhanced driving space
Compared to mainstream models on the market

Ultimate turning capability

Dual-motor drive
Extreme zero-turn

96_v

Fast charging speed
Low energy consumption, highest in its class

Suitable for cold storage

Long-term operation at -30°C (optional)
Standard battery heating

7寸

Large-sized smart screen
Remote lock | OTA

Efficient and safe

22% gradeability | IP67 protection
The only 20kW integrated permanent magnet synchronous motor in its class



Key features

High efficiency, long endurance

- The 16/20S series is equipped with China's first integrated electric drive system, offering low energy consumption and high operational efficiency as standard
- Smaller turning radius, shorter body length, and quicker lifting speed
- Standard 22-degree high-capacity lithium-ion battery, featuring a 1-hour fast charge (20%-95%) and an 8-hour work cycle

Reliable quality, durable

- Supporting long-term operation at -20°C with standard battery heating, specifically designed for cold storage and warehousing
- Rigorous testing and verification of the EV systems: IP67 or higher protection rating, exceptional durability, and an extended warranty of 10,000 hours over five years

Convenient maintenance, strong applicability

- Covering parts can be removed without tools, allowing access to major maintenance components in under 1 minute
- China's first integrated electric drive system with a dual oil tank setup, designed with a straightforward and user-friendly layout

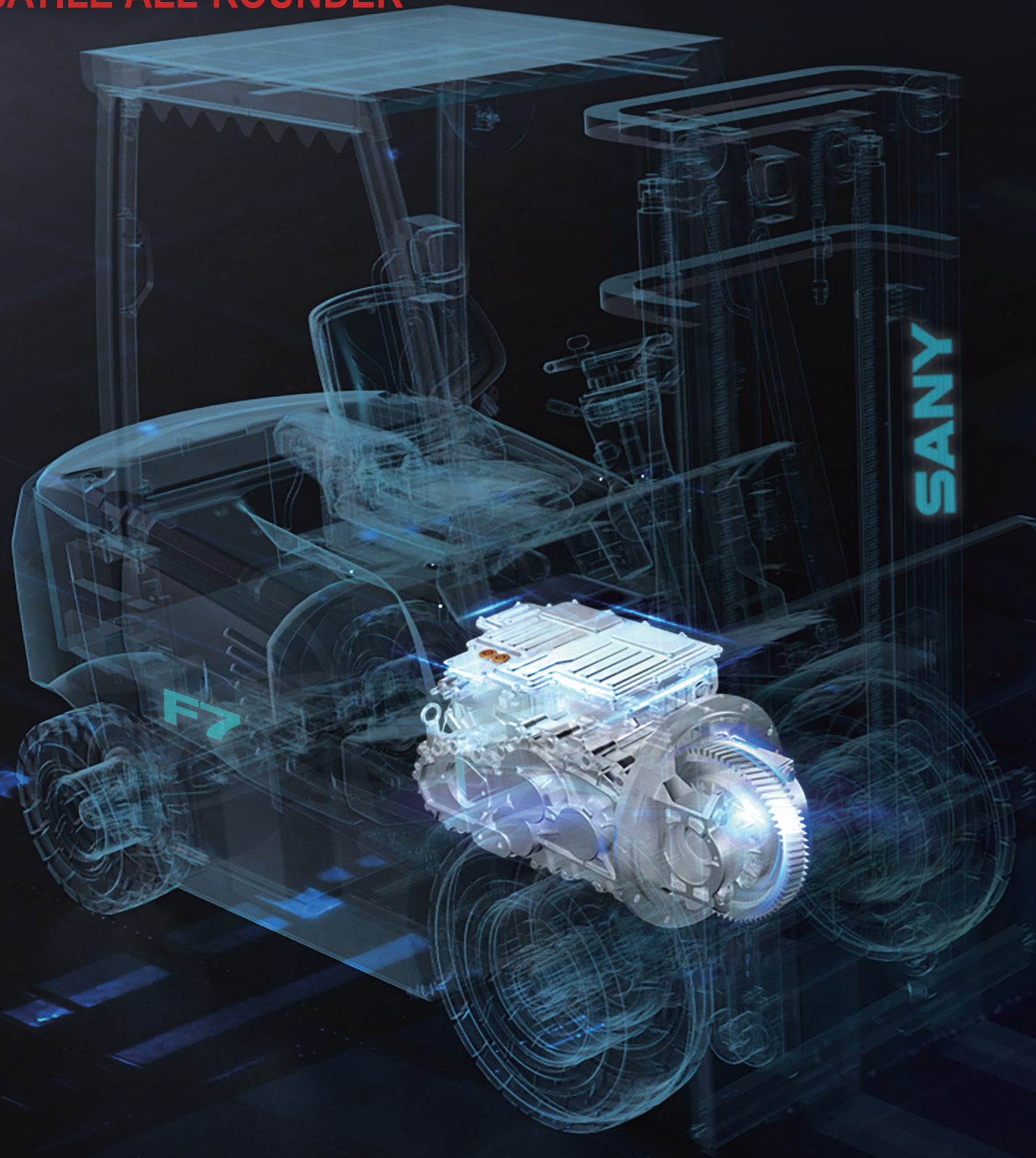
Ergonomic, comfortable driving

- Extra-large multifunctional LCD display (integrated with T-BOX) provides comprehensive vehicle information and enables direct adjustment of key vehicle parameters
- Extra-large legroom in the driver's area, 30% larger than similar products on the market
- Optional electro-proportional valve seat armrest and dual-pedal functionality for enhanced driving comfort

Intelligence

- Standard T-BOX cloud platform management enables features such as remote upgrades and remote locking
- Optional 360° panoramic imaging

F SERIES
VERSATILE ALL-ROUNDER



INDUSTRY'S FIRST
96V WATER-COOLED 8-IN-1 POWERTRAIN

Compared to mainstream electric forklifts on the market
15% reduction in structural energy consumption

15%↓
Energy Consumption

10% increase in power performance
Over 18% no-load gradeability

10%↑
Performance

Simpler vehicle layout
Reduced maintenance time

20%↓
Maintenance time

Full life-cycle maintenance
30% lower costs

30%↓
Maintenance cost

90% fewer main electrical interfaces
More waterproof and reliable

90%↓
Interface

Key features

Exceptional performance

- The industry's first 96V 8-in-1 powertrain with liquid cooling for continuous and efficient operation
- IP67 protection for the powertrain, battery, and core electrical components, with IPX4 for the entire vehicle
- Travel speed >16 km/h, gradeability >17%, leading comparable models in the industry

Improved efficiency

- In-house developed dual-core VCU with superior computing power, delivering millisecond-level response and strong driving control
- High-performance battery with fast charging, reaching 20%-100% in 1 hour (with a 200A charger)
- Permanent magnet synchronous electric drive for high power and efficiency

Safe and reliable

- Active safety system: Detecting human movement and providing early warnings of potential hazards (optional)
- High-precision facial recognition system to prevent driver fatigue (optional)

Energy saving and cost reduction

- Powertrain structure provides strong power with lower overall energy consumption than mainstream models on the market
- Meeting over 80% of customer requirements for light and medium-duty applications
- Excellent cost-effectiveness, reducing customer operation and maintenance costs by 1/3

Extended warranty

- Extended warranty of five years or 10,000 hours for the battery and powertrain
- (One-year warranty for the reduction gearbox), ensuring worry-free operation

C SERIES (2-5 TONS) HIGH VOLTAGE, HIGH ENERGY, THE ULTIMATE PERFORMER

7%

Increased operating speed
Compared to traditional
internal combustion forklifts

HIGH-VOLTAGE LITHIUM-ION BATTERY

Industry's first application of
NEV-grade
High-voltage platform in
electric forklifts

30%

Lower operating costs
Compared to traditional
electric forklifts

FAST CHARGING

Charge to 90% in 1 hour
The entire series complies
with national charging
standards

15%

Improved overall efficiency
Compared to traditional
electric forklifts

KING OF GRADEABILITY

The 3-ton C7 has a full-load
gradeability
of up to 25%

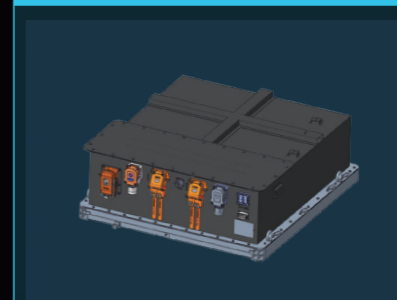


Automotive-grade motor



Permanent magnet synchronous
electric drive for greater power and
stronger performance

Automotive-grade lithium-ion battery



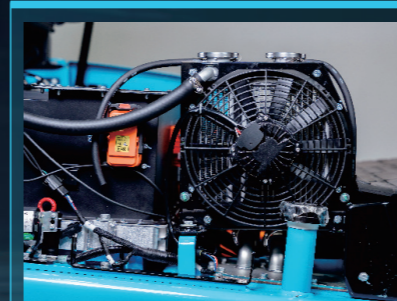
Industry's first
Highly integrated lithium-ion battery,
BMS

Automotive-grade wiring harness



Neat wiring harness
More reliable and easier to maintain

Automotive-grade liquid cooling



The EV system is equipped with an
automotive-grade liquid cooling
system, making it heat-resistant and
more durable

Automotive-grade protection



IP67 protection rating for core
electrical components and IPX4 for the
entire truck

Automotive-grade VCU



Self-developed dual-core VCU with
ultra-strong computing power
Forklift "brain" with millisecond-level
response and powerful performance

China: The entire series complies with national charging standards
Overseas: National (GB), European (CE), and American (UL) charging standards are available as options

C SERIES (8-TON) HEAVY-DUTY FORKLIFT

> 20%

Gradeability

> 20 km/h

Travel speed

10 inch

Standard intelligent display

386 v

Voltage platform

77 kWh

Standard battery capacity

> 350 mm/s

Lifting speed (laden)

Five years or
10,000 hours

EV system warranty

CATL battery

Standard compressor
water cooling



Key features

High-end configuration

- Standard features include a fully enclosed cab with panoramic glass, air conditioning, a suspension seat, electric proportional joystick controls, a 10-inch intelligent touchscreen, and a reverse camera, all of which significantly enhance driving comfort

Powerful performance

- The high-power permanent magnet synchronous motor delivers exceptional performance, offering strong gradeability and travel speed at a dual 20 level under full load. With an S9 duty cycle and extended durability, it is designed to meet customer demands across a wide range of operating conditions

All-weather operation

- The EV system is IP67-rated for waterproofing, making it resilient against heavy rain and dusty environments, and adaptable to a range of extreme conditions

Convenient maintenance

- The tiltable cab design significantly improves maintenance convenience

High-voltage fast charging

- CATL's standard battery pack comes equipped with compressor water cooling and offers an extended warranty of 5 years or 10,000 hours
- 1-hour high-voltage fast charging for rapid power replenishment, ensuring all-day operational needs are met

Intelligent truck

- A higher level of intelligence, featuring a forklift cloud platform, reverse camera, and cornering speed reduction, with optional features such as ramp assist, driver posture detection, and facial recognition

Container entry operation

- The overall height of the truck is <2540mm, allowing for container entry operations and greatly expanding the forklift's operating conditions

Ultra-long endurance

- Equipped with a 100 kWh water-cooled battery, the maximum endurance can reach up to 6 h

DRIVING COMFORT

- 01 Industry-leading super-large-vision mast for improved smoothness and hydraulic system, as well as high strength.
- 02 Shock-absorbing seat ensures a smooth ride regardless of terrain and reduces operator fatigue; the seat comes standard with an OPS switch for occupant presence sensing.
- 03 Standard 7-inch intelligent instrument touch display, with such functions as fault diagnosis, remote control, parameter customization, etc. Optional IC card. (The 7-inch smart instrument screen is only equipped on models such as F1/F7/C7)
- 04 Quick acceleration, smooth parking, and slope-assisted operation, to be simple, accurate and efficient.



EASE OF MAINTENANCE

Any position can be reached in one minute for maintenance with reasonable parts arrangement; all parts are within reach after removal of the cover for easy maintenance.



WORRY-FREE AFTER-SALES SERVICE

Exceeding Customer Expectations: By providing customers with exceptional service, SANY will maximize the value of each customer's equipment. With relentless attitude, employ every conceivable means, and deliver unparalleled service.

Exceeding Industry Standards: By implementing the highest service standards in the industry, SANY will achieve the highest level of customer satisfaction.



- **Proactive Service (Green Action)**
Search and locate machines, inspect machines, resolve issues, and respond to other needs to enhance customer satisfaction.
- **Customer Complaints**
Direct communication with the Chairman's office Ensure customer satisfaction.
- **Lifetime Commitment**
Provide full life-cycle service and accessory supply for equipment.
- **24/7 Service**
Rapid response mechanism for quickly resolving customer issues regardless of cost.

SANY ELECTRIC FORKLIFT IS TRUSTWORTHY



Boards



Ceramics



Paper industry



Chemicals



Waste paper baling



Mold



Glass



Automobile



Express delivery



Port



Graphite



Fireworks



Home appliance



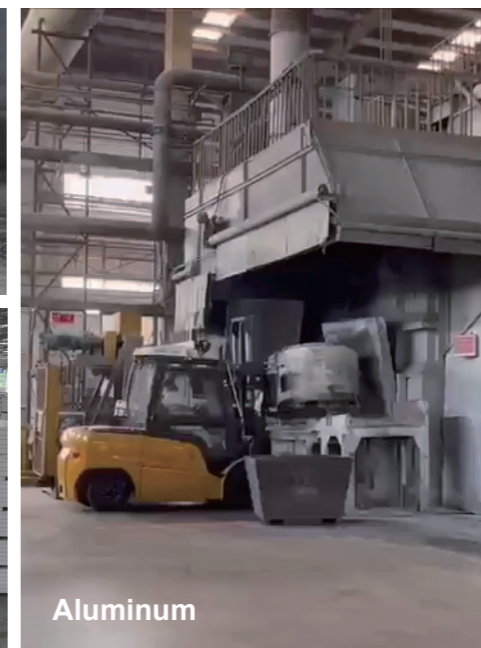
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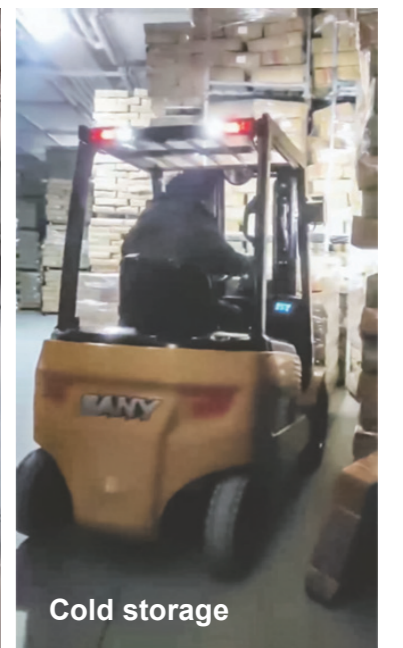
Forging



Recycling



Aluminum



Cold storage



Liquor and beverage



Logistics

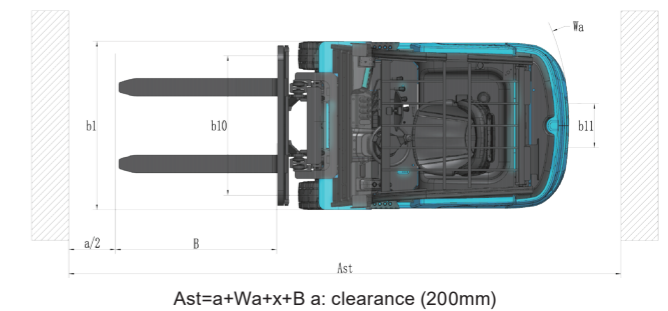
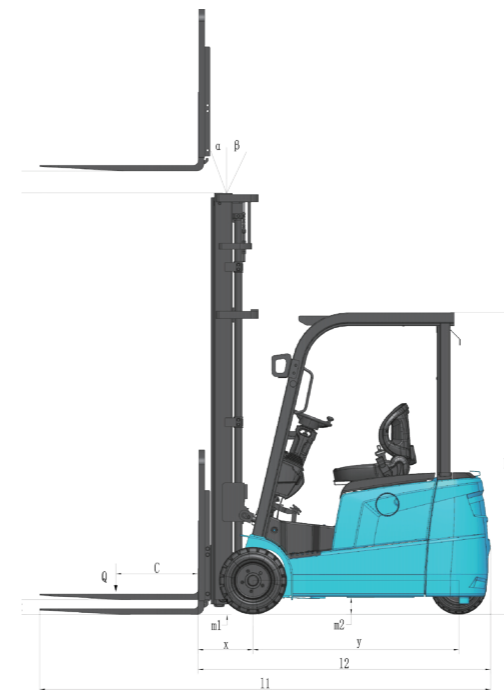


Building materials

STANDARD SPECIFICATIONS (3-WHEEL)

Class		Unit	Parameter	
Overview	Product model		SCP16S	SCP20S
	Rated loading capacity	Q(kg)	1600	2000
	Load center distance	c(mm)	500	500
	Front overhang	x(mm)	365	370
	Wheel base	y(mm)	1300	1390
Weight	Dead weight	kg	2950	3325
	Axle loading, laden front/rear	kg	3900/550	4826/544
	Axle loading, unladen front/rear	kg	1330/1620	1423/1902
Tires	Tire type	/	Solid tire	Solid tire
	Front wheel specification	/	18×7-8	200/50-10
	Rear wheel specification	/	15×4.5-8	140/55-9
	Front wheel track	b10(mm)	945	961
	Rear wheel track	b11(mm)	190	200
Dimension	Tilt of mast, forward/backward	$\alpha / \beta (^{\circ})$	5/7	5/7
	Height when the gantry is retracted	h1(mm)	2060	2060
	Free lift	h2(mm)	100	100
	Lift height	h3(mm)	3000	3000
	Maximum lifting height of gantry	h4(mm)	4092	4092
	Height of overhead guard	h6(mm)	2040	2040
	Length to face of forks	L2(mm)	1868	1969
	Overall width	b1(mm)	1110	1140
	Fork size (thickness / width / length)	s/e/l(mm)	35/100/920	40/122/920
	Fork spread	mm	1040/200	1040/200
	Ground clearance, under mast	m1(mm)	90	90
	Ground clearance, center of wheelbase	m2(mm)	110	110
	Stacking aisle (1 m x 1.2 m crossways)	Ast(mm)	3200	3310
	Stacking aisle (0.8 m x 1.2 m lengthways)	Ast(mm)	3320	3430
	Minimum turning radius	Wa(mm)	1500	1610

Class		Unit	Parameter	
Performance	Product model		SCP16S	SCP20S
	Maximum travel speed (laden/unladen)	km/h	16/16	16/16
	Maximum lift speed (laden/unladen)	mm/s	510/530	510/530
	Lowering speed (laden/unladen)	mm/s	500/580	500/580
	Traction force (laden/unladen)	N	13000	14100
	Gradeability (laden/unladen)	%	22	22
	Service brake	/	Hydraulic	Hydraulic
	Parking brake	/	Mechanical	Mechanical
Motor & Battery	Traveling motor (S2-60min)	kW	6×2	6×2
	Lifting motor (S3-15%)	kW	20	20
	Battery voltage/capacity	V/kWh	96/22	96/22
	Battery weight	kg	220	220
Controller	Travel control type	-	AC/MOSFET	AC/MOSFET
	Pressure for attachments	Mpa	16	18



OPTIONS LIST (3-WHEEL)

	SCP	16S/20s
Tires	Pneumatic tires	—
	Solid tire	●
	Non-marking tires	○
Seat	Domestic standard seat	●
	Domestic suspension seat	○
	Grammer suspension seat	○
Control valve	OPS mechanical valve, 2-spool	●
	OPS mechanical valve, 3-spool	○
	OPS mechanical valve, 4-spool	○
	Joystick solenoid valve, 2-spool	○
	Joystick solenoid valve, 3-spool	○
	Joystick solenoid valve, 4-spool	○
	Fingertip control solenoid valve, 2-spool	○
	Fingertip control solenoid valve, 3-spool	○
Fingertip control solenoid valve, 4-spool	○	
Mast	Standard 2-stage 3m	●
	Standard 2-stage 3.5m	○
	Standard 2-stage 4m	○
	Standard 2-stage 4.5m	○
	Standard 2-stage 5m	○
	2-stage full free lift 3m	○
	3-stage full free lift 4.5m	○
	3-stage full free lift 5m	○
	3-stage full free lift 5.5m	○
3-stage full free lift 6m	○	
Forks	1070mm	○
	Without forks	○
	1220mm	○
	1370mm	○
	1520mm	○
	1670mm	○
	1820mm	○
	2000mm	○
	920mm	●
Intelligent terminal	Remote diagnosis function	●
Intelligent speed limit	Intelligent turning speed reduction	●
Attachments	External sideshifter, etc.	○

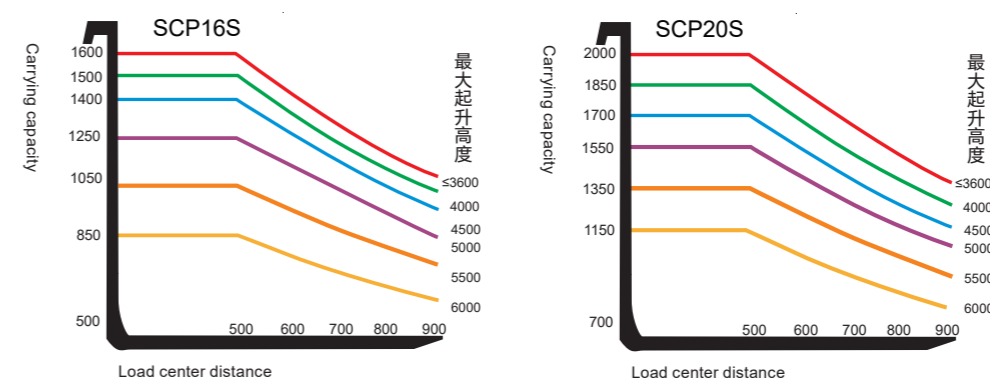
●Standard ○Optional - No such configuration

	SCP	16S/20s
Lights	Standard lighting (front/rear combination lights)	●
	Rotating beacon (yellow)	○
	Rotating beacon (blue)	○
	Rear work light	○
	Blue spot light	○
	Boundary warning light strip (blue)	○
	Boundary warning light strip (red)	○
	Rotating audible and visual alarm (yellow)	○
	Fog light (yellow)	○
Cab	Standard overhead guard	●
	Front windshield + PC top cover, wiper, washer fluid reservoir + fan	○
	Full cab (without air conditioning)	○
	Full cab (without air conditioning + electric heater)	○
Full cab (with air conditioning)	○	
Hoses	Single additional attachment hose (standard mast)	○
	Dual additional attachment hoses (standard mast)	○
	Single additional attachment hose (2-stage full free mast)	○
	Dual additional attachment hoses (2-stage full free mast)	○
	Single additional attachment hose (3-stage full free mast)	○
	Dual additional attachment hoses (3-stage full free mast)	○
Charger	96V100A (380V industrial power)	●
	96V200A (380V industrial power)	○
	20kw (380V industrial power)	—
	30kw (380V industrial power)	—
	40KW (380V industrial power)	—
	60kw single gun (380V industrial power)	—
Battery	19.2 kWh (192V)	—
	22 kWh (96V)	●
	30 kWh (96V)	—
	29.4 kWh (96V)	—
	29.4 kWh (294V)	—
	31 kWh (96V)	—
	43.2 kWh (288V)	—
	44 kWh (96V)	—
	47 kWh (288V)	—
50 kWh (336V)	—	
52 kWh (320V)	—	
70 kWh (307.2V)	—	

MAST SPECIFICATIONS (3-WHEEL)

Mast type	Mast model	Maximum lifting height	SCP16/20S					
			Load capacity (Load center 500mm)	Load capacity (Load center 500mm)	Mast height, lowered	Mast height, extended	Free lift height	Mast tilt angle
			1.6t	2t		Without load backrest/With load backrest	Without load backrest/With load backrest	Forward/Backward
mm	kg	kg	mm	mm	mm	°		
2-stage wide-view mast	S30	3000	1600	2000	2060	3590/4052	100	5/7
	S35	3500	1600	2000	2310	4090/4552	100	5/7
	S40	4000	1500	1850	2600	4590/5052	100	3/5
	S45	4500	1450	1800	2850	5090/5552	100	3/5
	S50	5000	1320	1700	3100	5590/6052	100	3/3
2-stage full free lift mast	D30	3000	1600	2000	2060	3620/4052	1380/948	5/7
3-stage full free lift mast	T45	4500	1400	1700	2160	5120/5552	1480/1048	3/5
	T48	4800	1320	1620	2235	5395/5827	1555/1123	3/5
	T50	5000	1250	1550	2330	5620/6052	1650/1218	3/3
	T55	5500	1050	1350	2580	6120/6552	1900/1468	3/3
	T60	6000	850	1150	2830	6620/7052	2150/1718	3/3

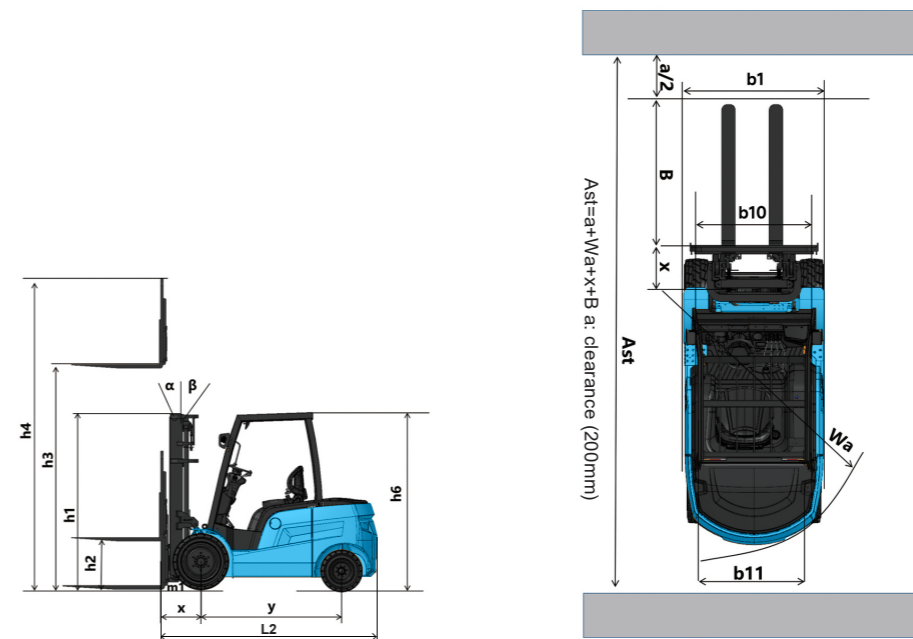
Load capacity chart



STANDARD SPECIFICATIONS (2 TON-2.5 TON)

Class		Unit	Parameter					
Product model			SCP20C6	SCP25C6	SCP20G	SCP25G	SCP20F7	SCP25F7
Overview	Rated loading capacity	Q (kg)	2000	2500	2000	2500	2000	2500
	Load center distance	c(mm)	500	500	500	500	500	500
	Front overhang	x(mm)	450	450	460	460	450	450
	Wheel base	y(mm)	1650	1650	1650	1650	1650	1650
	Dead weight	kg	3650	3950	3550	3850	3650	3950
Weight	Axle loading, laden front/rear	kg	4950/700	5650/800	4900/750	5600/750	4950/700	5650/800
	Axle loading, unladen front/rear	kg	1770/1880	1900/2050	1750/1800	1750/2100	1750/1900	1900/2050
	Tire type	/	Solid tire	Solid tire	Solid tire	Solid tire	Pneumatic tires	Pneumatic tires
Tires	Front wheel specification	/	7.00-12	7.00-12	7.00-12	7.00-12	7.00-12-14PR	7.00-12-14PR
	Rear wheel specification	/	18×7-8	18×7-8	18×7-8	18×7-8	18×7-8-14PR	18×7-8-14PR
	Front wheel track	b10(mm)	1040	1040	1040	1040	1040	1040
	Rear wheel track	b11(mm)	980	980	980	980	980	980
	Tilt of mast, forward/backward	α/β (°)	6/12	6/12	6/12	6/12	6/12	6/12
Dimension	Height when the gantry is retracted	h1(mm)	2000	2000	2140	2140	2000	2000
	Free lift	h2(mm)	100	100	100	100	100	100
	Lift height	h3(mm)	3000	3000	3000	3000	3000	3000
	Maximum lifting height of gantry	h4(mm)	4100	4100	4100	4100	4100	4100
	Height of overhead guard	h6(mm)	2170	2170	2170	2170	2170	2170
	Length to face of forks	L2(mm)	2400	2400	2410	2410	2420	2420
	Overall width	b1(mm)	1230	1230	1230	1230	1230	1230
	Fork size (thickness / width / length)	s/e/l(mm)	40/122/1070	40/122/1070	40/122/1070	40/122/1070	40/122/1070	40/122/1070
	Fork spread	mm	250-1100	250-1100	250-1100	250-1100	250-1100	250-1100
	Ground clearance, under mast	m1(mm)	100	100	140	140	100	100
	Ground clearance, center of wheelbase	m2(mm)	130	130	130	130	/	/
	Stacking aisle (1 m x 1.2 m crossways)	Ast(mm)	3740	3740	3750	3750	3750	3750
	Stacking aisle (0.8 m x 1.2 m lengthways)	Ast(mm)	3940	3940	3950	3950	3950	3950
	Minimum turning radius	Wa(mm)	2090	2090	2090	2090	2100	2100

Class		Unit	Parameter					
Product model			SCP20C6	SCP25C6	SCP20G	SCP25G	SCP20F7	SCP25F7
Performance	Maximum travel speed (laden/unladen)	km/h	16/16	16/16	20/20	20/20	20/20	20/20
	Maximum lift speed (laden/unladen)	mm/s	470/480	470/480	500/550	500/550	500/510	500/510
	Lowering speed (laden/unladen)	mm/s	410/500	410/500	450/460	450/460	420/480	420/480
	Traction force (laden/unladen)	N	13000	13000	15000	15000	14300	14300
	Gradeability (laden/unladen)	%	16/20	16/20	20/22	20/20	20	20
	Service brake	/	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	Parking brake	/	Mechanica	Mechanica	Mechanica	Mechanica	Mechanica	Mechanica
	Motor & Battery	Traveling motor (S2-60min)	kW	16	16	20	20	18
Lifting motor (S3-15%)		kW	21	21	25	25	25	25
Battery voltage/capacity		V/kWh	96/22	96/22	192/19.2	192/19.2	96/22	96/22
Battery weight		kg	210	210	190	190	210	210
Controller		Travel control type	-	AC/MOSFET	AC/MOSFET	IGBT	IGBT	AC/MOSFET
	Pressure for attachments	Mpa	17	17	17	17	17	17



OPTIONS LIST (2 TON-2.5 TON)

●Standard ○Optional - No such configuration

SCP		20C6	25C6	20G	25G	20F7	25F7
Tires	Pneumatic tires	○	○	○	○	●	●
	Solid tire	●	●	●	●	○	○
	Non-marking tires	○	○	○	○	○	○
Seat	Domestic standard seat	●	●	●	●	●	●
	Domestic suspension seat	○	○	○	○	○	○
	Grammer suspension seat	○	○	○	○	○	○
Control valve	OPS mechanical valve, 2-spool	●	●	●	●	●	●
	OPS mechanical valve, 3-spool	○	○	○	○	○	○
	OPS mechanical valve, 4-spool	○	○	○	○	○	○
	Joystick solenoid valve, 2-spool	○	○	○	○	○	○
	Joystick solenoid valve, 3-spool	○	○	○	○	○	○
	Joystick solenoid valve, 4-spool	○	○	○	○	○	○
	Fingertip control solenoid valve, 2-spool	○	○	○	○	○	○
Mast	Standard 2-stage 3m	●	●	●	●	●	●
	Standard 2-stage 3.5m	○	○	○	○	○	○
	Standard 2-stage 4m	○	○	○	○	○	○
	Standard 2-stage 4.5m	○	○	○	○	○	○
	Standard 2-stage 5m	○	○	○	○	○	○
	2-stage full free lift 3m	○	○	○	○	○	○
	3-stage full free lift 4.5m	○	○	○	○	○	○
	3-stage full free lift 5m	○	○	○	○	○	○
	3-stage full free lift 5.5m	○	○	○	○	○	○
	3-stage full free lift 6m	○	○	○	○	○	○
Forks	1070mm	●	●	●	●	●	●
	Without forks	○	○	○	○	○	○
	1220mm	○	○	○	○	○	○
	1370mm	○	○	○	○	○	○
	1520mm	○	○	○	○	○	○
	1670mm	○	○	○	○	○	○
	1820mm	○	○	○	○	○	○
	2000mm	○	○	○	○	○	○
920mm	-	-	-	-	-	-	
Intelligent terminal	Remote diagnosis function	●	●	●	●	●	●
Intelligent speed limit	Intelligent turning speed reduction	●	●	●	●	●	●
Attachments	External sideshifter, etc.	○	○	○	○	○	○

●Standard ○Optional - No such configuration

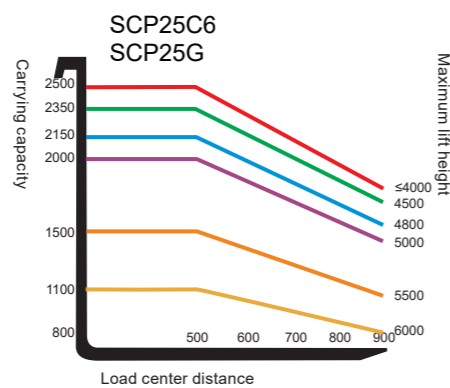
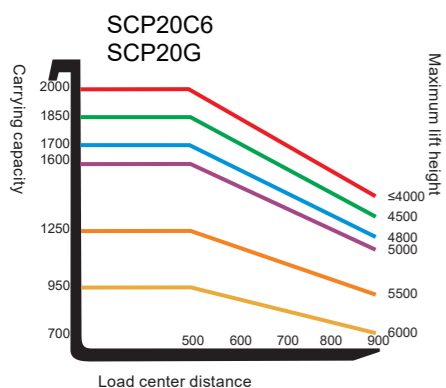
SCP		20C6	25C6	20G	25G	20F7	25F7
Lights	Standard lighting (front/rear combination lights)	●	●	●	●	●	●
	Rotating beacon (yellow)	○	○	○	○	○	○
	Rotating beacon (blue)	○	○	○	○	○	○
	Rear work light	○	○	○	○	○	○
	Blue spot light	○	○	○	○	○	○
	Boundary warning light strip (blue)	○	○	○	○	○	○
	Boundary warning light strip (red)	○	○	○	○	○	○
	Rotating audible and visual alarm (yellow)	○	○	○	○	○	○
	Fog light (yellow)	○	○	○	○	○	○
Cab	Standard overhead guard	●	●	●	●	●	●
	Front windshield + PC top cover, wiper, washer fluid reservoir + fan	○	○	○	○	○	○
	Full cab (without air conditioning)	○	○	○	○	○	○
	Full cab (without air conditioning + electric heater)	○	○	○	○	○	○
Hoses	Full cab (with air conditioning)	○	○	○	○	○	○
	Single additional attachment hose (standard mast)	○	○	○	○	○	○
	Dual additional attachment hoses (standard mast)	○	○	○	○	○	○
	Single additional attachment hose (2-stage full free mast)	○	○	○	○	○	○
	Dual additional attachment hoses (2-stage full free mast)	○	○	○	○	○	○
	Single additional attachment hose (3-stage full free mast)	○	○	○	○	○	○
Charger	Dual additional attachment hoses (3-stage full free mast)	○	○	○	○	○	○
	96V100A (380V industrial power)	○	○	-	-	●	●
	96V100A (220V industrial power)	○	○	-	-	-	-
	96V200A (480V industrial power)	○	○	-	-	-	-
	96V200A (220V industrial power)	○	○	-	-	-	-
	96V200A (380V industrial power)	○	○	-	-	-	-
	20kw (380V industrial power)	-	-	○	○	-	-
	30kw (480V industrial power)	-	-	○	○	-	-
Battery	30kw (380V industrial power)	-	-	○	○	-	-
	19.2 kWh (192V)	-	-	●	●	-	-
	22 kWh (96V)	●	●	-	-	●	●
	30 kWh (96V)	-	-	-	-	-	-
	29.4 kWh (96V)	-	-	-	-	-	-
	29.4 kWh (294V)	-	-	-	-	-	-
	31 kWh (96V)	○	○	-	-	-	-
	43.2 kWh (288V)	-	-	-	-	-	-
	50 kWh (336V)	-	-	-	-	-	-
52 kWh (320V)	-	-	-	-	-	-	
70 kWh (307.2V)	-	-	-	-	-	-	

MAST SPECIFICATIONS (2 TON-2.5 TON)

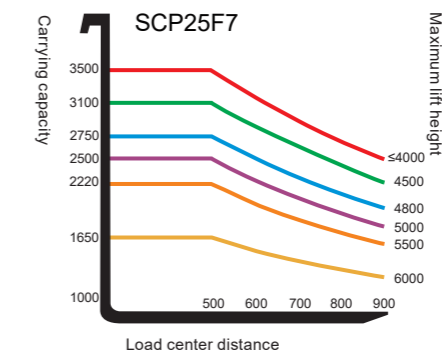
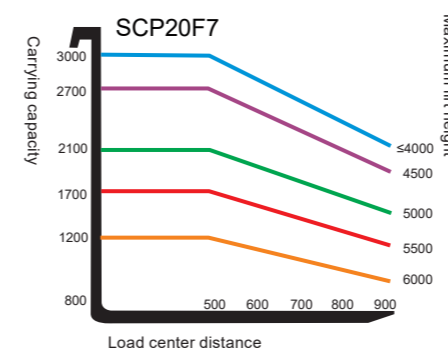
Mast type	Mast model	Maximum lifting height mm	SCP20/25C6					
			Load capacity (Load center 500mm)	Load capacity (Load center 500mm)	Mast height, lowered mm	Mast height, extended	Free lift height	Mast tilt angle °
			2.0t	2.5t		Without load backrest/With load backrest	Without load backrest/With load backrest	
			kg	kg	mm	mm	mm	
2-stage wide-view mast	S30	3000	2000	2500	2000	3620/4090	100	6/12
	S35	3500	2000	2500	2250	4120/4590	100	6/12
	S40	4000	2000	2500	2500	4620/5090	100	6/12
	S45	4500	1850	2350	2750	5120/5590	100	6/6
	S50	5000	1700	2200	3000	5620/6090	100	6/6
2-stage full free lift mast	D30	3000	2000	2500	2050	3620/4090	1450/980	6/12
3-stage full free lift mast	T45	4500	1850	2300	2050	5120/5590	1450/980	6/6
	T50	5000	1600	2000	2220	5620/6090	1620/1150	6/6
	T55	5500	1250	1500	2435	6120/6590	1835/1365	3/3
	T60	6000	950	1050	2600	6620/7090	2000/1530	3/3

Mast type	Mast model	Maximum lifting height mm	SCP20/25G					SCP20/25F7						
			Load capacity (Load center 500mm)	Load capacity (Load center 500mm)	Mast height, lowered mm	Mast height, extended	Free lift height	Mast tilt angle	Load capacity (Load center 500mm)	Load capacity (Load center 500mm)	Mast height, lowered mm	Mast height, extended	Free lift height	Mast tilt angle °
			2.0t	2.5t		Without load backrest/With load backrest	Without load backrest/With load backrest	Forward/Backward	2.0t	2.5t		Without load backrest/With load backrest	Without load backrest/With load backrest	
			kg	kg	mm	mm	mm	°	kg	kg	mm	mm	mm	°
2-stage wide-view mast	S30	3000	2000	2500	2140	3670/4090	100	6/12	2000	2500	2000	3620/4090	100	6/12
	S35	3500	2000	2500	2390	4170/4590	100	6/12	2000	2500	2250	4120/4590	100	6/12
	S40	4000	2000	2500	2640	4670/5090	100	6/12	2000	2500	2500	4620/5090	100	6/12
	S45	4500	1850	2350	2890	5170/5590	100	6/6	1850	2350	2750	5120/5590	100	6/6
	S50	5000	1700	2200	3140	5670/6090	100	6/6	1700	2200	3000	5620/6090	100	6/6
2-stage full free lift mast	D30	3000	2000	2500	2140	3690/4110	1485/1065	6/12	2000	2500	2050	3620/4090	1450/980	6/12
3-stage full free lift mast	T45	4500	1850	2300	2190	5170/5590	1535/1115	6/6	1850	2300	2050	5120/5590	1450/980	6/6
	T50	5000	1600	2000	2360	5670/6090	1705/1285	6/6	1600	2000	2220	5620/6090	1620/1150	6/6
	T55	5500	1250	1500	2575	6170/6590	1920/1500	3/6	1250	1500	2435	6120/6590	1835/1365	3/3
	T60	6000	950	1050	2740	6670/7090	2085/1665	3/6	950	1050	2600	6620/7090	2000/1530	3/3

Load capacity chart



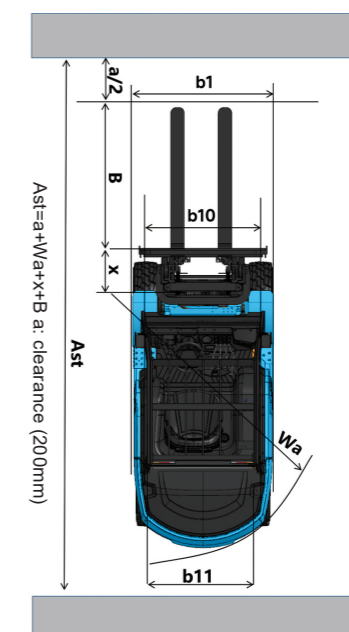
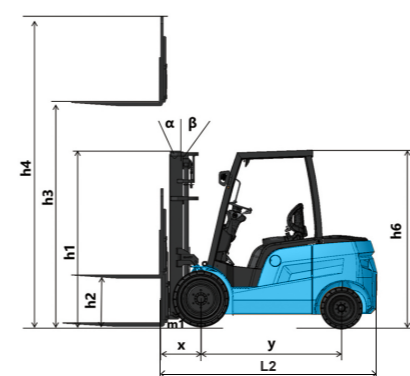
Load capacity chart



STANDARD SPECIFICATIONS (3 TON-3.5 TON)

Class		Unit	Parameter							
Product model			SCP30F1	SCP35F1	SCP30F7	SCP35F7	SCP30C6	SCP35C6	SCP30C7	SCP35C7
Overview	Rated loading capacity	Q (kg)	3000	3500	3000	3500	3000	3500	3000	3500
	Load center distance	c(mm)	500	500	500	500	500	500	500	500
	Front overhang	x(mm)	485	490	485	490	495	500	485	490
	Wheel base	y(mm)	1750	1750	1750	1750	1750	1750	1750	1750
	Dead weight	kg	4670	5100	4670	5100	4720	5150	4720	5150
Weight	Axle loading, laden front/rear	kg	6700/970	7690/910	6700/970	7690/910	6860/860	7740/910	6860/860	7740/910
	Axle loading, unladen front/rear	kg	2150/2520	2200/2900	2150/2520	2200/2900	2190/2530	2320/2830	2190/2530	2320/2830
	Tire type	/	Pneumatic tires	Pneumatic tires	Pneumatic tires	Pneumatic tires	Solid tire	Solid tire	Solid tire	Solid tire
Tires	Front wheel specification	/	28×9-15PR	28×9-15PR	28×9-15PR	28×9-15PR	28×9-15	28×9-15	28×9-15	28×9-15
	Rear wheel specification	/	21×8-9PR	21×8-9PR	21×8-9PR	21×8-9PR	21×8-9	21×8-9	21×8-9	21×8-9
	Front wheel track	b10(mm)	1020	1020	1020	1020	1020	1020	1020	1020
	Rear wheel track	b11(mm)	1000	1000	1000	1000	1000	1000	1000	1000
	Tilt of mast, forward/backward	α / β (°)	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12
Dimension	Height when the gantry is retracted	h1(mm)	2140	2140	2140	2140	2180	2180	2140	2140
	Free lift	h2(mm)	120	120	120	120	120	120	120	120
	Lift height	h3(mm)	3000	3000	3000	3000	3000	3000	3000	3000
	Maximum lifting height of gantry	h4(mm)	4190	4190	4190	4190	4100	4100	4200	4200
	Height of overhead guard	h6(mm)	2190	2190	2190	2190	2185	2190	2190	2190
	Length to face of forks	L2(mm)	2680	2680	2680	2680	2695	2695	2680	2680
	Overall width	b1(mm)	1250	1250	1250	1250	1250	1250	1250	1250
	Fork size (thickness / width / length)	s/e/l(mm)	45/122/1070	50/122/1070	45/122/1070	50/122/1070	45/122/1070	50/122/1070	45/122/1070	50/122/1070
	Fork spread	mm	250-1100	250-1100	247-1100	247-1100	250-1100	250-1100	250-1100	250-1100
	Ground clearance, under mast	m1(mm)	140	140	130	130	180	180	140	140
	Ground clearance, center of wheelbase	m2(mm)	150	150	150	150	150	150	150	150
	Stacking aisle (1 m x 1.2 m crossways)	Ast(mm)	4035	4040	4035	4040	4045	4250	4035	4040
	Stacking aisle (0.8 m x 1.2 m lengthways)	Ast(mm)	4235	4240	4235	4240	4245	4050	4235	4240
	Minimum turning radius	Wa(mm)	2350	2350	2350	2350	2350	2350	2350	2350

Class		Unit	Parameter							
Product model			SCP30F1	SCP35F1	SCP30F7	SCP35F7	SCP30C6	SCP35C6	SCP30C7	SCP35C7
Performance	Maximum travel speed (laden/unladen)	km/h	16/16	16/16	16/17	16/17	20/20	20/20	20/20	20/20
	Maximum lift speed (laden/unladen)	mm/s	350/400	350/400	350/400	350/380	440/460	440/460	440/460	440/460
	Lowering speed (laden/unladen)	mm/s	420/440	420/440	420/440	420/440	420/405	420/405	420/405	420/405
	Traction force (laden/unladen)	N	17300/15800	17300/15800	17300/15800	17300/15800	16800	16800	23400	23400
	Gradeability (laden/unladen)	%	16/20	16/20	17/18	16/18	20/20	20/20	25/25	25/25
	Service brake	/	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	Parking brake	/	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
	Motor & Battery	Traveling motor (S2-60min)	kW	17	17	18	18	32	32	32/29
Lifting motor (S3-15%)		kW	25	25	25	25	25	25	25/29	25/29
Battery voltage/capacity		V/kWh	96/22	96/22	96/22	96/22	294.4/29.4	294.4/29.4	294.4/29.4	294.4/29.4
Battery weight		kg	210	210	210	210	250	250	250	250
Controller	Travel control type	-	AC/MOSFET	AC/MOSFET	AC/MOSFET	AC/MOSFET	IGBT	IGBT	IGBT	IGBT
	Pressure for attachments	Mpa	18.5	18.5	18.5	18.5	19.5	19.5	19.5	19.5



OPTIONS LIST(3 TON-3.5 TON)

●Standard ○Optional - No such configuration

SCP		30F1	35F1	30F7	35F7	30C6	35C6	30C7	35C7
Tires	Pneumatic tires	●	●	●	●	○	○	○	○
	Solid tire	○	○	○	○	●	●	●	●
	Non-marking tires	○	○	○	○	○	○	○	○
Seat	Domestic standard seat	●	●	●	●	●	●	●	●
	Domestic suspension seat	○	○	○	○	○	○	○	○
	Grammer suspension seat	○	○	○	○	○	○	○	○
Control valve	OPS mechanical valve, 2-spool	●	●	●	●	●	●	●	●
	OPS mechanical valve, 3-spool	○	○	○	○	○	○	○	○
	OPS mechanical valve, 4-spool	○	○	○	○	○	○	○	○
	Joystick solenoid valve, 2-spool	○	○	○	○	○	○	○	○
	Joystick solenoid valve, 3-spool	○	○	○	○	○	○	○	○
	Joystick solenoid valve, 4-spool	○	○	○	○	○	○	○	○
	Fingertip control solenoid valve, 2-spool	○	○	○	○	○	○	○	○
	Fingertip control solenoid valve, 3-spool	○	○	○	○	○	○	○	○
Fingertip control solenoid valve, 4-spool	○	○	○	○	○	○	○	○	
Intelligent terminal	Remote diagnosis function	●	●	●	●	●	●	●	●
Intelligent speed limit	Intelligent turning speed reduction	●	●	●	●	●	●	●	●
Mast	Standard 2-stage 3m	●	●	●	●	●	●	●	●
	Standard 2-stage 3.5m	○	○	○	○	○	○	○	○
	Standard 2-stage 4m	○	○	○	○	○	○	○	○
	Standard 2-stage 4.5m	○	○	○	○	○	○	○	○
	Standard 2-stage 5m	○	○	○	○	○	○	○	○
	2-stage full free lift 3m	○	○	○	○	○	○	○	○
	3-stage full free lift 4.5m	○	○	○	○	○	○	○	○
	3-stage full free lift 5m	○	○	○	○	○	○	○	○
Hoses	Single additional attachment hose (standard mast)	○	○	○	○	○	○	○	○
	Dual additional attachment hoses (standard mast)	○	○	○	○	○	○	○	○
	Single additional attachment hose (2-stage full free mast)	○	○	○	○	○	○	○	○
	Dual additional attachment hoses (2-stage full free mast)	○	○	○	○	○	○	○	○
	Single additional attachment hose (3-stage full free mast)	○	○	○	○	○	○	○	○
	Dual additional attachment hoses (3-stage full free mast)	○	○	○	○	○	○	○	○
Forks	1070mm	●	●	●	●	●	●	●	●
	Without forks	○	○	○	○	○	○	○	○
	1220mm	○	○	○	○	○	○	○	○
	1370mm	○	○	○	○	○	○	○	○
	1520mm	○	○	○	○	○	○	○	○
	1670mm	○	○	○	○	○	○	○	○
	1820mm	○	○	○	○	○	○	○	○
2000mm	○	○	○	○	○	○	○	○	

●Standard ○Optional - No such configuration

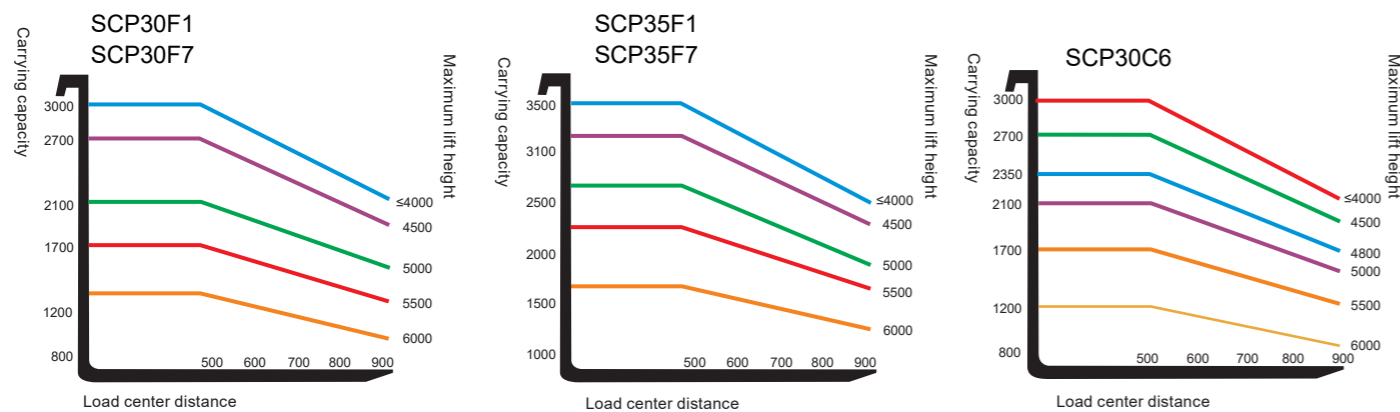
SCP		30F1	35F1	30F7	35F7	30C6	35C6	30C7	35C7
Lights	Standard lighting (front/rear combination lights)	●	●	●	●	●	●	●	●
	Rotating beacon (yellow)	○	○	○	○	○	○	○	○
	Rotating beacon (blue)	○	○	○	○	○	○	○	○
	Rear work light	○	○	○	○	○	○	○	○
	Blue spot light	○	○	○	○	○	○	○	○
	Boundary warning light strip (blue)	○	○	○	○	○	○	○	○
	Boundary warning light strip (red)	○	○	○	○	○	○	○	○
	Rotating audible and visual alarm (yellow)	○	○	○	○	○	○	○	○
	Fog light (yellow)	○	○	○	○	○	○	○	○
Cab	Standard overhead guard	●	●	●	●	●	●	●	●
	Front windshield + PC top cover, wiper, washer fluid reservoir + fan	○	○	○	○	○	○	○	○
	Full cab (without air conditioning)	○	○	○	○	○	○	○	○
	Full cab (without air conditioning + electric heater)	○	○	○	○	○	○	○	○
	Full cab (with air conditioning)	○	○	○	○	○	○	○	○
Battery	19.2 kWh (192V)	-	-	-	-	-	-	-	-
	22 kWh (96V)	●	●	●	●	-	-	-	-
	29.4 kWh (96V)	-	-	-	-	-	-	-	-
	29.4 kWh (294V)	-	-	-	-	●	●	●	●
	31 kWh (96V)	○	○	○	○	-	-	-	-
	43.2 kWh (288V)	-	-	-	-	○	○	○	○
	50 kWh (336V)	-	-	-	-	-	-	-	-
52 kWh (320V)	-	-	-	-	-	-	-	-	
70 kWh (307.2V)	-	-	-	-	-	-	-	-	
Charger	96V100A (380V industrial power)	●	●	●	●	-	-	-	-
	96V100A (220V industrial power)	○	○	○	○	-	-	-	-
	96V200A (480V industrial power)	○	○	○	○	-	-	-	-
	96V200A (220V industrial power)	○	○	○	○	-	-	-	-
	96V200A (380V industrial power)	○	○	○	○	-	-	-	-
	20kw (380V industrial power)	-	-	-	-	○	○	○	○
Attachments	30kw (480V industrial power)	-	-	-	-	○	○	○	○
	30kw (380V industrial power)	-	-	-	-	○	○	○	○
	External sideshifter, etc.	○	○	○	○	○	○	○	○

MAST SPECIFICATIONS (3 TON-3.5 TON)

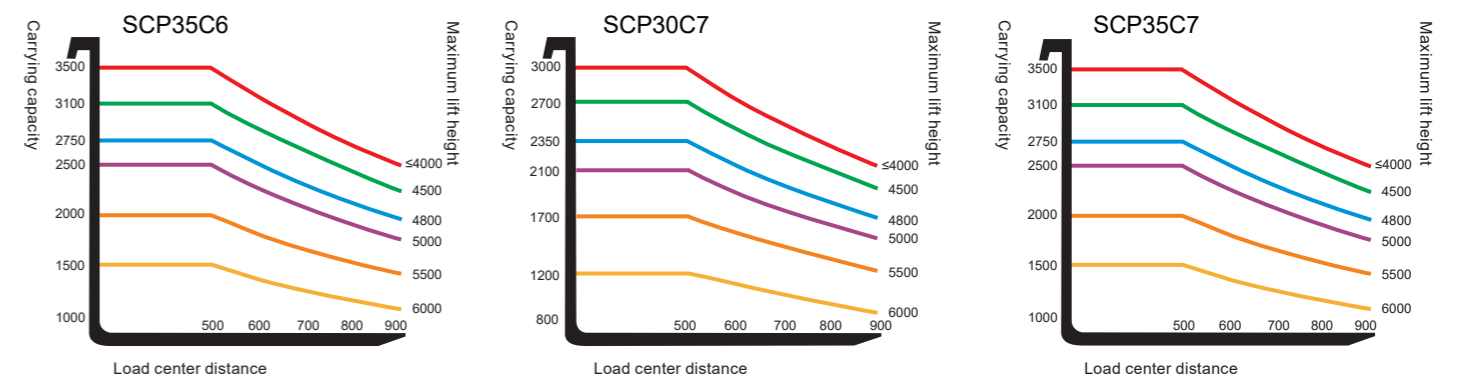
Mast type	Mast model	Maximum lifting height mm	SCP30/35F1						SCP30/35F7					
			Load capacity (Load center 500mm)		Mast height, lowered mm	Mast height, extended mm	Free lift height mm	Mast tilt angle °	Load capacity (Load center 500mm)		Mast height, lowered mm	Mast height, extended mm	Free lift height mm	Mast tilt angle °
			3.0t kg	3.5t kg					3.0t kg	3.5t kg				
			Without load backrest/With load backrest	Without load backrest/With load backrest	Forward/Backward	Without load backrest/With load backrest	Without load backrest/With load backrest	Forward/Backward						
2-stage wide-view mast	S30	3000	3000	3500	2140	3730/4200	120	6/12	3000	3500	2140	3730/4200	120	6/12
	S35	3500	3000	3500	2390	4230/4700	120	6/12	3000	3500	2390	4230/4700	120	6/12
	S40	4000	3000	3500	2740	4730/5200	120	6/10	3000	3500	2740	4730/5200	120	6/12
	S45	4500	2700	3150	2990	5230/5700	120	6/6	2700	3150	2990	5230/5700	120	6/6
	S50	5000	2350	2750	3240	5730/6200	120	6/6	2350	2750	3240	5730/6200	120	6/6
2-stage full free lift mast	D30	3000	3000	3500	2140	3730/4200	1450/980	6/12	3000	3500	2140	3730/4200	1450/980	6/12
3-stage full free lift mast	T45	4500	2500	2900	2180	5260/5700	1460/1020	6/6	2500	2900	2180	5260/5700	1460/1020	6/6
	T50	5000	2100	2500	2450	5760/6200	1730/1290	6/6	2100	2500	2450	5760/6200	1730/1290	6/6
	T55	5500	1700	2000	2610	6260/6700	1890/1450	3/6	1700	2000	2610	6260/6700	1890/1450	3/6
	T60	6000	1200	1500	2830	6760/7200	2110/1670	3/6	1200	1500	2830	6760/7200	2110/1670	3/6

Mast type	Mast model	Maximum lifting height mm	SCP30/35C6						SCP30/35C7					
			Load capacity (Load center 500mm)		Mast height, lowered mm	Mast height, extended mm	Free lift height mm	Mast tilt angle °	Load capacity (Load center 500mm)		Mast height, lowered mm	Mast height, extended mm	Free lift height mm	Mast tilt angle °
			3.0t kg	3.5t kg					3.0t kg	3.5t kg				
			Without load backrest/With load backrest	Without load backrest/With load backrest	Forward/Backward	Without load backrest/With load backrest	Without load backrest/With load backrest	Forward/Backward						
2-stage wide-view mast	S30	3000	3000	3500	2180	3740/4200	120	6/12	3000	3500	2140	3730/4200	120	6/12
	S35	3500	3000	3500	2430	4240/4700	120	6/12	3000	3500	2390	4230/4700	120	6/12
	S40	4000	3000	3500	2680	4740/5200	120	6/12	3000	3500	2740	4730/5200	120	6/10
	S45	4500	2700	3150	2930	5240/5700	120	6/6	2700	3150	2990	5230/5700	120	6/6
	S50	5000	2350	2750	3180	5740/6200	120	6/6	2350	2750	3240	5730/6200	120	6/6
2-stage full free lift mast	D30	3000	3000	3500	2180	3740/4200	1480/1020	6/12	3000	3500	2140	3730/4200	1450/980	6/12
3-stage full free lift mast	T45	4500	2500	2900	2230	5240/5700	1530/1070	6/6	2500	2900	2180	5260/5700	1460/1020	6/6
	T50	5000	2100	2500	2400	5740/6200	1700/1240	6/6	2100	2500	2450	5760/6200	1730/1290	6/6
	T55	5500	1700	2000	2615	6240/6700	1915/1455	3/6	1700	2000	2610	6260/6700	1890/1450	3/6
	T60	6000	1200	1500	2780	6740/7200	2080/1620	3/6	1200	1500	2830	6760/7200	2110/1670	3/6

Load capacity chart



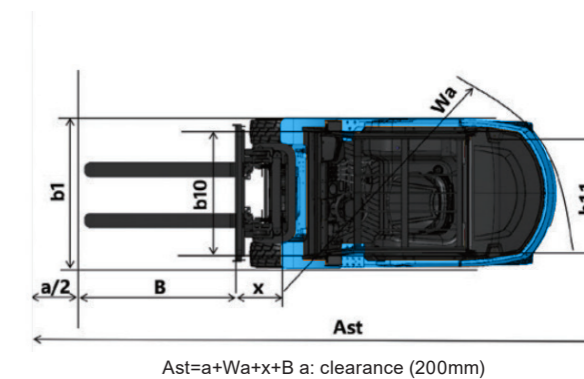
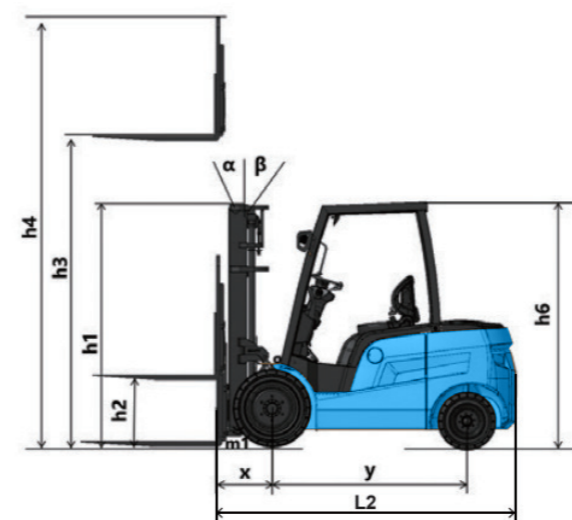
Load capacity chart



STANDARD SPECIFICATIONS (4 TON-5 TON)

	Class	Unit	Parameter		
Overview	Product model		SCP40C6	SCP40C7	SCP50C6
	Rated loading capacity	Q (kg)	4000	4000	5000
	Load center distance	c(mm)	500	500	500
	Front overhang	x(mm)	515	490	560
	Wheel base	y(mm)	1850	1850	2000
Weight	Dead weight	kg	5855	5855	7300
	Axle loading, laden front/rear	kg	8675/1180	8675/1180	10800/1500
	Axle loading, unladen front/rear	kg	2480/3375	2480/3375	3200/4100
Tires	Tire type	/	Solid tire	Solid tire	Solid tire
	Front wheel specification	/	250-15	250-15	28×12.5-15
	Rear wheel specification	/	21×8-9	21×8-9	23×9-10
	Front wheel track	b10(mm)	1050	1050	1200
	Rear wheel track	b11(mm)	1000	1000	1120
Dimension	Tilt of mast, forward/backward	$\alpha / \beta (^{\circ})$	6/10	6/12	6/10
	Height when the gantry is retracted	h1(mm)	2170	2140	2190
	Free lift	h2(mm)	120	120	110
	Lift height	h3(mm)	3000	3000	3000
	Maximum lifting height of gantry	h4(mm)	4150	4200	4200
	Height of overhead guard	h6(mm)	2210	2210	2170
	Length to face of forks	L2(mm)	2860	2860	3150
	Overall width	b1(mm)	1310	1310	1500
	Fork size (thickness / width / length)	s/e/l(mm)	50/122/1070	50/122/1070	50/150/1070
	Fork spread	mm	250-1100	250-1100	350-1360
	Ground clearance, under mast	m1(mm)	130	140	140
	Ground clearance, center of wheelbase	m2(mm)	170	170	140
	Stacking aisle (1 m x 1.2 m crossways)	Ast(mm)	4165	4140	4516
	Stacking aisle (0.8 m x 1.2 m lengthways)	Ast(mm)	4365	4340	4716
	Minimum turning radius	Wa(mm)	2450	2450	2756

	Class	Unit	Parameter		
Performance	Product model		SCP40C6	SCP40C7	SCP50C6
	Maximum travel speed (laden/unladen)	km/h	20/20	20/20	20/20
	Maximum lift speed (laden/unladen)	mm/s	380/410	380/410	450/470
	Lowering speed (laden/unladen)	mm/s	340/430	340/430	450/480
	Traction force (laden/unladen)	N	21000	21000	25000
	Gradeability (laden/unladen)	%	20/20	20/20	20/20
	Service brake	/	Hydraulic	Hydraulic	Hydraulic
	Parking brake	/	Mechanica	Mechanica	Mechanica
	Motor & Battery	Traveling motor (S2-60min)	kW	32	32/29
Lifting motor (S3-15%)		kW	32	25/29	45
Battery voltage/capacity		V/kWh	288/47	288/47	320/52
Battery weight		kg	325	325	400
Controller	Travel control type	-	IGBT	IGBT	IGBT
	Pressure for attachments	Mpa	19.5	19.5	18



OPTIONS LIST (4 TON-5 TON)

●Standard ○Optional - No such configuration

SCP		40C6	40C7	50C6
Tires	Pneumatic tires	—	—	—
	Solid tire	●	●	●
	Non-marking tires	○	○	○
Seat	Domestic standard seat	●	●	—
	Domestic suspension seat	○	○	●
	Grammer suspension seat	○	○	○
Control valve	OPS mechanical valve, 2-spool	●	●	●
	OPS mechanical valve, 3-spool	○	○	○
	OPS mechanical valve, 4-spool	○	○	○
	Joystick solenoid valve, 2-spool	○	○	○
	Joystick solenoid valve, 3-spool	○	○	○
	Joystick solenoid valve, 4-spool	○	○	○
	Fingertip control solenoid valve, 2-spool	○	○	○
	Fingertip control solenoid valve, 3-spool	○	○	○
	Fingertip control solenoid valve, 4-spool	○	○	○
Mast	Standard 2-stage 3m	●	●	●
	Standard 2-stage 3.5m	○	○	○
	Standard 2-stage 4m	○	○	○
	Standard 2-stage 4.5m	○	○	○
	Standard 2-stage 5m	○	○	○
	2-stage full free lift 3m	○	○	○
	3-stage full free lift 4.5m	○	○	○
	3-stage full free lift 5m	○	○	○
	3-stage full free lift 5.5m	○	○	○
	3-stage full free lift 6m	○	○	○
	1070mm	●	●	●
Without forks	○	○	○	
1220mm	○	○	○	
1370mm	○	○	○	
1520mm	○	○	○	
1670mm	○	○	○	
1820mm	○	○	○	
2000mm	○	○	○	
Lights	Standard lighting (front and rear combination lights)	●	●	●
	Rotating beacon (yellow)	○	○	○
	Rotating beacon (blue)	○	○	○
	Rear work light	○	○	○
	Blue spot light	○	○	○
	Boundary warning light strip (blue)	○	○	○
	Boundary warning light strip (red)	○	○	○
	Strobe warning light (yellow)	○	○	○
	Fog light (yellow)	○	○	○

●Standard ○Optional - No such configuration

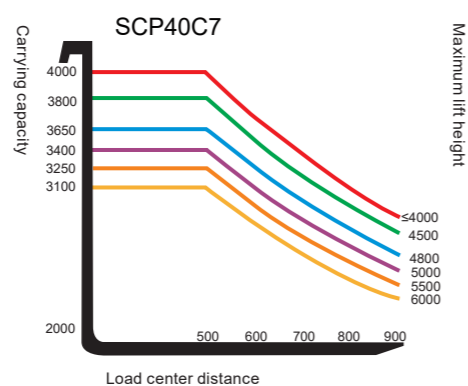
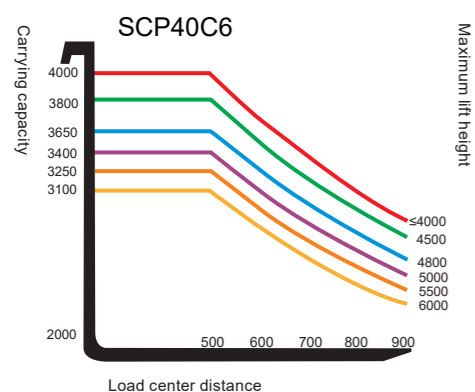
SCP		40C6	40C7	50C6
Cab	Standard overhead guard	●	●	●
	Front windshield + PC top cover, wiper, washer fluid reservoir + fan	○	○	○
	Full cab (without air conditioning)	○	○	○
	Full cab (without air conditioning + electric heater)	○	○	○
	Full cab (with air conditioning)	○	○	○
Battery	19.2 kWh (192V)	—	—	—
	22 kWh (96V)	—	—	—
	29.4 kWh (96V)	—	—	—
	29.4 kWh (294V)	—	—	—
	31 kWh (96V)	—	—	—
	43.2 kWh (288V)	●	●	—
	50 kWh (336V)	—	—	—
	52 kWh (320V)	○	○	●
	70 kWh (307.2V)	—	—	○
	Charger	96V100A (380V industrial power)	—	—
96V100A (220V industrial power)		—	—	—
96V200A (480V industrial power)		—	—	—
96V200A (220V industrial power)		—	—	—
96V200A (380V industrial power)		—	—	—
20kw (380V industrial power)		○	○	○
30kw (480V industrial power)		○	○	○
30kw (380V industrial power)		○	○	○
Hoses	Single additional attachment hose (standard mast)	○	○	○
	Dual additional attachment hoses (standard mast)	○	○	○
	Single additional attachment hose (2-stage full free mast)	○	○	○
	Dual additional attachment hoses (2-stage full free mast)	○	○	○
	Single additional attachment hose (3-stage full free mast)	○	○	○
Dual additional attachment hoses (3-stage full free mast)	○	○	○	
Attachments	External sideshifter, etc.	○	○	○
Intelligent terminal	Remote diagnosis function	●	●	●
Intelligent speed limit	Intelligent turning speed reduction	●	●	●

MAST SPECIFICATIONS(4 TON-5 TON)

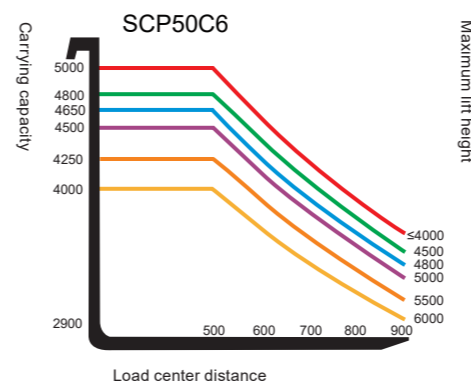
Mast type	Mast model	Maximum lifting height	SCP40C6					SCP40C7					
			Load capacity (Load center 500mm)		Mast height, extended	Free lift height	Mast tilt angle	Load capacity (Load center 500mm)		Mast height, lowered	Mast height, extended	Free lift height	Mast tilt angle
			4.0t	Mast height, lowered				4.0t	Mast height, lowered				
			mm	kg	mm	mm	mm	°	kg	mm	mm	mm	°
2-stage wide-view mast	S30	3000	4000	2170	3760/4200	120	6/10	4000	2140	3730/4200	120	6/12	
	S35	3500	4000	2420	4260/4700	120	6/10	4000	2390	4230/4700	120	6/12	
	S40	4000	4000	2670	4760/5200	120	6/10	4000	2740	4730/5200	120	6/12	
	S45	4500	3850	2920	5260/5700	120	6/6	3850	2990	5230/5700	120	6/6	
	S50	5000	3500	3170	5760/6200	120	6/6	3500	3240	5730/6200	120	6/6	
2-stage full free lift mast	D30	3000	4000	2230	3850/4200	1420/1070	6/10	4000	2200	3820/4200	1415/1040	6/12	
3-stage full free lift mast	T45	4500	3800	2190	5280/5700	1450/1030	6/6	3800	2200	5320/5700	1415/1040	6/6	
	T50	5000	3400	2360	4780/6200	1620/1200	6/6	3400	2470	5820/6200	1685/1310	6/6	
	T55	5500	3250	2575	6280/6700	1835/1415	3/6	3250	2690	6320/6700	1905/1530	3/6	
	T60	6000	3100	2740	6780/7200	2000/1580	3/6	3100	2860	6830/7200	2070/1700	3/6	

Mast type	Mast model	Maximum lifting height	SCP50C6					
			Load capacity (Load center 500mm)		Mast height, lowered	Mast height, extended	Free lift height	Mast tilt angle
			5.0t	Mast height, lowered				
			mm	kg	mm	mm	mm	°
2-stage wide-view mast	S30	3000	5000	2190	3880/4200	110	6/10	
	S35	3500	5000	2440	4380/4700	110	6/10	
	S40	4000	5000	2790	4880/5200	110	6/10	
	S45	4500	4700	3040	5380/5700	110	6/6	
	S50	5000	4600	3290	5880/6200	110	6/6	
2-stage full free lift mast	D30	3000	5000	2190	3900/4200	1335/1035	6/10	
3-stage full free lift mast	T45	4500	4770	2340	5460/5700	1425/1185	6/6	
	T50	5000	4620	2510	5960/6200	1595/1355	6/6	
	T55	5500	4460	2670	6460/6700	1755/1515	3/6	
	T60	6000	4300	2840	6960/7200	1925/1685	3/6	

Load capacity chart



Load capacity chart

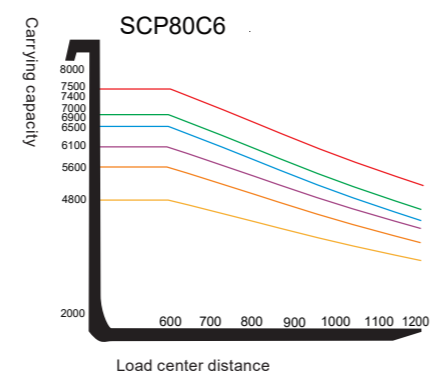


STANDARD SPECIFICATIONS (C SERIES 8 TON)

	Class	Unit	Parameter
Overview	Product model		SCP80C6
	Rated loading capacity	Q (kg)	8000
	Load center distance	c(mm)	600
	Front overhang	x(mm)	633
	Wheel base	y(mm)	2400
Weight	Dead weight	kg	11700
	Axle loading, laden front/rear	kg	16940/2805
	Axle loading, unladen front/rear	kg	4600/6960
Tires	Tire type	/	Solid tire
	Front wheel specification	/	8.25-15 (6.5)
	Rear wheel specification	/	8.25-15 (6.5)
	Front wheel track	b10(mm)	1550
	Rear wheel track	b11(mm)	1410
Dimension	Tilt of mast, forward/backward	$\alpha / \beta (^{\circ})$	6/10
	Height when the gantry is retracted	h1(mm)	2540
	Free lift	h2(mm)	0
	Lift height	h3(mm)	3000
	Maximum lifting height of gantry	h4(mm)	4450
	Height of overhead guard	h6(mm)	2698
	Length to face of forks	L2(mm)	3716
	Overall width	b1(mm)	2000
	Fork size (thickness / width / length)	s/e/l(mm)	75/150/1220
	Fork spread	mm	1690/300
	Ground clearance, under mast	m1(mm)	200
	Ground clearance, center of wheelbase	m2(mm)	200
	Stacking aisle (1 m x 1.2 m crossways)	Ast(mm)	5210
	Stacking aisle (0.8 m x 1.2 m lengthways)	Ast(mm)	5410
	Minimum turning radius	Wa(mm)	3200

	Class	Unit	Parameter	
Performance	Product model		SCP80C6	
	Maximum travel speed (laden/unladen)	km/h	20/20	
	Maximum lift speed (laden/unladen)	mm/s	350/380	
	Lowering speed (laden/unladen)	mm/s	450/350	
	Traction force (laden/unladen)	N	40000	
	Gradeability (laden/unladen)	%	20	
	Service brake	/	Hydraulic	
	Parking brake	/	Hydraulic	
	Motor & Battery	Traveling motor (S2-60min)	kW	65
		Lifting motor (S3-15%)	kW	2x35
Battery voltage/capacity		V/kWh	386/200	
Battery weight		kg	460	
Travel control type		-	IGBT/AC	
Pressure for attachments	Mpa	16		

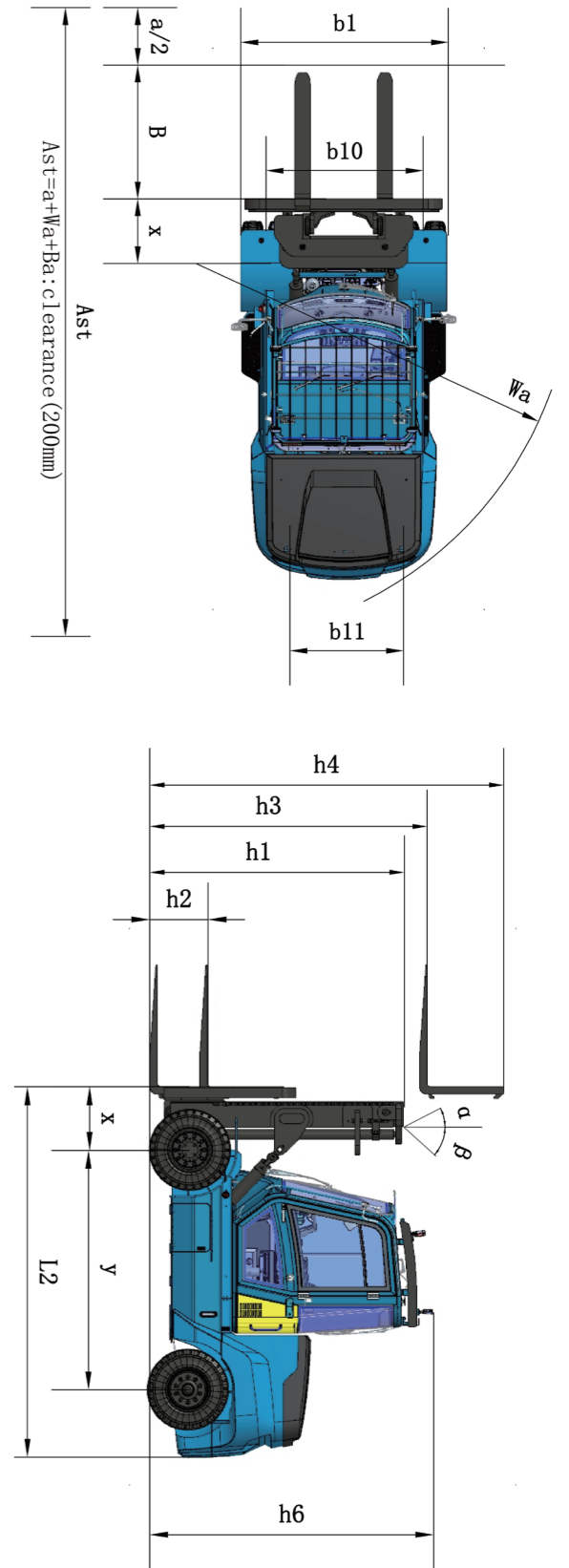
Load capacity chart



OPTIONS LIST (C SERIES 8 TON)

● Standard ○ Optional - No such configuration

	SCP	SCP80C6
Tires	Solid tire	●
	Non-marking tires	-
Seat	Domestic standard seat	-
	Domestic suspension seat	-
	Grammer suspension seat	●
Control	Two-function electronic control lever	-
	Three-function electronic control lever	-
	Four-function electronic control lever	●
Intelligent terminal	Remote diagnosis function	●
Intelligent speed limit	Intelligent turning speed reduction	●
Mast	Standard 2-stage 3m	●
	Standard 2-stage 3.5m	○
	Standard 2-stage 4m	○
	Standard 2-stage 4.5m	○
	Standard 2-stage 5m	○
	2-stage full free lift 3m	○
	3-stage full free lift 4.5m	○
	3-stage full free lift 5m	○
Hoses	Single additional attachment hose (standard mast)	○
	Dual additional attachment hoses (standard mast)	○
	Single additional attachment hose (2-stage full free mast)	○
	Dual additional attachment hoses (2-stage full free mast)	○
	Single additional attachment hose (3-stage full free mast)	○
	Dual additional attachment hoses (3-stage full free mast)	○
Forks	Without forks	○
	1220mm	●
	1370mm	○
	1520mm	○
	1670mm	○
	1820mm	○
	2000mm	○
	2120mm	○
2440mm	○	
Lights	Standard lighting (front/rear combination lights)	●
	Rotating beacon (yellow)	○
	Rotating beacon (blue)	○
	Rear work light	○
	Blue spot light	○
	Boundary warning light strip (blue)	○
	Boundary warning light strip (red)	○
	Rotating audible and visual alarm (yellow)	○
	Fog light (yellow)	○
	Cab	Full cab (with air conditioning)
Battery	77 kWh (386V)	●
	100 kWh (309V)	○
Charger	60kw single gun (380V industrial power)	○
Attachments	External sidershifter, etc.	○



MAST SPECIFICATIONS (C SERIES 8 TON)

Mast type	Mast model	Maximum lifting height	SCP80C6					
			Load capacity (Load center 500mm)	Mast height, lowered	Mast height, extended	Free lift height		Mast tilt angle
			8.0t		Without load backrest/With load backrest	Without load backrest/With load backrest		Forward/Backward
			mm	kg	mm	mm		°
2-stage wide-view mast	S30	3000	8000	2530	4080/4450	0		6/10
	S35	3500	8000	2780	4580/4950	0		6/10
	S40	4000	8000	3030	5080/5450	0		6/10
	S45	4500	8000	3380	5630/5950	0		6/6
	S50	5000	8000	3630	6130/6450	0		6/6
	S55	5500	7400	3980	6730/6950	0		3/6
	S60	6000	7000	4230	7230/7450	0		3/6
2-stage full free lift mast	D30	3000	8000	2530	4080/4450	1515/1150		6/10
3-stage full free lift mast	T45	4500	7200	2750	5800/5950	1515/1370		6/6
	T50	5000	6500	2920	6300/6450	1685/1540		6/6
	T55	5500	6100	3190	6850/6950	1915/1810		3/6
	T60	6000	5600	3360	7350/7450	2075/1980		3/6

Optional attachment

External side shifter



Installation level: 2A, 3A
Application: For working conditions requiring side-shifting

Side shifter with fork positioner



Installation level: 2A, 3A
Application: For working conditions requiring both side-shifting and fork positioning

Rotator



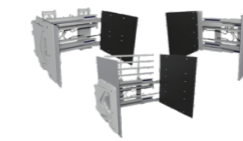
Installation level: 2A, 3A
Application: For working conditions requiring load dumping and turnover

Paper roll clamp



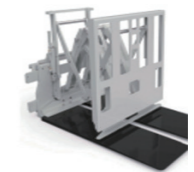
Installation level: 2A, 3A
Application: For handling paper rolls in the paper industry

Carton clamp



Installation level: 2A, 3A
Application: For handling cartons in the paper industry

Push-pull



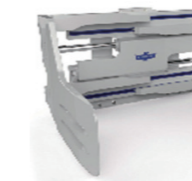
Installation level: 2A, 3A
Application: For handling bagged goods, boxed food, etc.

Single/double pallet fork



Installation level: 2A, 3A
Application: For dual-pallet handling, commonly used in breweries

Soft package clamp



Installation level: 2A, 3A
Application: For handling bulk materials such as scrap, recyclables, waste paper, soft bales, and textiles

